WOL'F, L.A.; MEOS, A.I.; KAUFMAN, Kh.Ya.

Refractometric determination of concentrations of polyvinyl alcohol solutions. Khim.volok. no.1:22-23 (60. (MIRA 13:6)

1. Leningradskiy tekstil'nyy institut. (Vinyl alcohol)

VOL'F, L.A.; MEOS, A.I.; INKINA, S.A.

Complexometric determination of sodium sulfate in precipitation baths in the manufacture of synthetic fibers. Khim.volok. no.1: 32-33 '60. (MIRA 13:6)

Leningradskiy tekstil'nyy institut.
 (Textile fibers, Synthetic) (Sodium sulfate)

### "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

S/183/60/000/003/009/016/XX B004/B067

AUTHORS:

Vol'f, L. A. and Meos, A. I.

TITLE:

Iodine Reaction of the Solutions of Polyvinyl Alcohol and

Fibers and Films Produced Therefrom

PERIODICAL:

Khimicheskiye volokna, 1960, No. 3, pp 21-22

TEXT: In the introduction, the authors give a survey of iodine reactions of polysaccharides, and discuss the different behaviors of starch, cellulose, glycogen, dextrin, etc. The blue color caused by iodine is explained as a reaction of the hydroxyl groups with iodine under adsorption and complex formation. The authors studied the reaction of water-soluble and hydrophobic fibers and films of polyvinyl alcohol (PVA) with I<sub>2</sub> and KI. The soluble products turned into an intensive blue whereas no coloring was observed after thermal stabilization (at 210°C). When previously swelled in water or borax, the thermostabilized fibers and films again turned blue. The same holds for PVA previously treated with formaldehyde. This effect of swelling is explained by a destruction of the hydrogen bonds. Like starch, also iodized PVA is decolorized when heated in boiling

Card 1/2

Iodine Reaction of the Solutions of Polyvinyl S/183/60/000/003/009/016/XX Alcohol, and Fibers and Films Produced B004/B067
Therefrom

water; on cooling, however, it turns blue again. Dissolved PVA is coagulated by an iodine solution. The authors had rodine-PVA films and fibers studied by M. A. Mikhel'son, physician and bacteriologist. It was observed that such films and fibers are longer sterile than material sterilized at high temperatures. Hence, the authors assume that iodine - polyvinyl alcohol films and fibers can be used as medical bandaging material. There are 6 references: 3 Soviet, 2 British, 1 Canadian, and 2 German.

ASSOCIATION: LTI im. Kirova (Leningrad Textile Institute imeni Kirov)

Card 2/2

S/183/60/000/004/003/005 B004/B058

AUTHORS: Meos, A. I., Vol'f, L. A., Tseytlina, L. A.

Acetalation of Polyvinyl Alcohol Fibers by Means of

Dialdehydes of Phthalic Acids

PERIODICAL: Khimicheskiye volokna, 1960, No. 4, pp. 18 - 20

TEXT: The authors start from data contained in Western publication (Refs. 1,2), according to which polyvinyl alcohol fibers can be made waterproof by means of formaldehyde or dialdehydes of phthalic acids. A previous heating of the fiber to 215°C is, however, prescribed in A previous heating of the fiber to find a method by which the strong this case. It was the authors aim to find a method by which the strong theating is avoided. Three ways are described as being possible: 1) reheating is avoided. Three ways are described as being possible: 1) reduction of the swelling property of the fiber by coagulating substances; addition 2) gradual temperature increase of the dialdehyde solution; 3) addition of substances which combine the aldehydes in the first stage of the process. The paper under review reports on the results according to 1) and 2). Polyvinyl alcohol fiber, obtained from the Leningradskiy nauchno-issledovatel'skiy institut polimerizatsionnykh plastmass

Card 1/3

TITLE:

Acetalation of Polyvinyl Alcohol Fibers by S/183/60/000/004/003/005 Means of Dialdehydes of Phthalic Acids B004/B058

(Leningrad Scientific Research Institute of Polymerization Plastics) was submitted to thermal stabilization at 210°C and subsequent treatment at 70°C with a solution of 38% methanol, 20% sulfuric acid, 39% water, and 3% terephthalic acid- or isophthalic acid dialdehyde. In a second test series, thermal stabilization was replaced by a three-hour treatment with a solution of sodium sulfate (350 g/l) at  $70^{\circ}$ C, followed by a treatment with dialdehyde, as in the first test series. The property of the fiber was evaluated on the basis of its shrinkage in length. The results are given in Table 1. The shrinkage of the thermally pretreated fiber amounted to 30.5%, that of the fiber treated with sodium sulfate 40.5-46.9%. When acetalating by means of formaldehyde, sodium sulfate produced far too big a shrinkage compared with thermal stabilization (Table 2). The authors explain the better effect of dialdehydes by the formation of intramolecular cross links, while intramolecular rings only result with formaldehyde. Acetalation by means of isophthalic acid dialdehyde was performed next under the following conditions: 2.5 h each at 3-5°C and 8-15°C, 30 min each at 15-40°C and 40-70°C, and 3 h at 70°C. After that, the total shrinkage of the fiber amounted to 15.5% only. On the basis of new experimental data, the authors concluded that the duration

Card 2/3

Acetalation of Polyvinyl Alcohol Fibers by S/183/60/000/004/003/005 Means of Dialdehydes of Phthalic Acids B004/B058

of treatment by this method can be further shortened. There are 2 tables and 2 non-Soviet references.

ASSOCIATION: LTI imeni S. M. Kirova (Leningrad Textile Institute imeni
S. M. Kirov)

Card 3/3

S/183/60/000/005/004/007 B028/B054

AUTHORS:

Vishnyakova, M. N., Meos, A. I.

TITLE:

Study of the Structure of Caprone Fibers by Electron-

microscopic Methods

PERIODICAL:

Khimicheskiye volokna, 1960, No. 5, pp. 20-24

TEXT: Preparations for these studies were crushed in a micromill of the type 3MNB(EMIB) during 30-90 min at 5,000 rpm. The electron-microscopic pictures are 6,000-fold magnifications of the preparations. The structure of raw caprone resin shows macromolecular coils forming on casting and hardening. The thickness of the coils is difficult to determine because of node formation. The thickness of the structural elements is ~1,000 A. In some cases, the unstretched caprone fiber shows strongly bent macromolecular coils as they also appear in raw resin. A molecular coil has an average thickness of 750 A. Spherolites appear in structural analyses of stretched caprone rayon fibers. Average thickness of macromolecular coils in the stretched fiber is about 660 A. Cord fiber is usually stretched to the 4 1/2-fold, and therefore shows a better orientation of structural

Card 1/2

Study of the Structure of Caprone Fibers by Electron-microscopic Methods

**s/**183/60/00**0**/005/004/007 B028/B054

elements, and macromolecular coils of a mean thickness of 540 A. Thus, the authors found that cord fibers, as well as stretched and unstretched fibers, have different structures; fibers directly drawn from resin have much thicker macromolecular coils than fibers obtained from a solution. Structural differences, however, decrease with increasing stretching. Stretched and unstretched rayon fibers show spherolites which were not observed in cord fibers. There are 9 figures and 6 references: 3 Soviet, 1 German, 1 Swiss, and 1 Swedish.

ASSOCIATION: LTI imeni S. M. Kirova (Leningrad Textile Institute imeni S. M. Kirov)

Card 2/2

MEOS, A.I.; VISHNYAKOVA, M.N.; BYKOVA, Ye.A.

Solution of cellulose and other polymeric materials.

(MIRA 15:12)

Trudy LTA no.91:27-31 '60.

l. Leningradskiy tekstil'nyy institut imeni Kirova.

(Polymers)

(Solution (Chemistry))

VOL'F, L.A.; MEOS, A.I.; IMKINA, S.A.; GUS'KOV, L.I.

Causes of the yellowing of vinel (vinylon) in the course of its themsal treat ent, and means for its prevention. Khin.volok. nc.1: 19-21 '61.

1.Leningralskiy tekstil'nyy institut imeni S.M.Kirova. (Vinylon)

VOL'F, L.A.; MEOS, A.I.; INKINA, S.A.

Modified method for the complexonometric determination of components in precipitation baths. Khim.volok. no.3:33-35 '61.

(MIRA 14:6)

1. Leningradskiy tekstil'nyy institut imeni S.M.Kirova.

(Viscose)

(Complex ions)

MEGS, A.I.; VOL'F, L.A.; VERESHCHAK, L.P.

Action of salt solutions on freshly formed polyvinyl alcohol
fibers. Khim.volok. no.5:21-23 '61. (MIRA 14:10)
fibers. Khim.volok. Synthetitut im. S.M.Kirova.

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova.
(Textile fibers, Synthetic) (Vinyl alcohol polymers)
(Salts)

S/183/61/000/006/002/002 B101/B110

AUTHORS:

Tseytlina, L. A., Meos, A. I., Vol'f, L. A.

TITLE:

Production of flameproof polyvinyl alcohol fibers and fabrics

PERIODICAL:

Khimicheskiye volokna, no. 6, 1961, 22-24

TEXT: The authors report on attempts to produce flameproof textiles by direct phosphorylation of polyvinyl alcohol fibers or fabrics with POCl3. The fiber was heated in air at 210°C for 5 min, and then treated at 70°C for 40 min in a bath of 4% HCOH, 20% H<sub>2</sub>SO<sub>4</sub>, and 25% Na<sub>2</sub>SO<sub>4</sub>. After rinsing and drying, there followed a 3-hr treatment in a bath of POCl<sub>3</sub> dissolved in CHCl<sub>3</sub>, then repeated rinsing with ethanol, the last one with 5% ethanolic solution of NH<sub>3</sub>. The P content of the fiber, after its decomposition in concentrated H<sub>2</sub>SO<sub>4</sub>, was determined by the molybdate method according to

W. A. Pons et al. (see below). The P content could be changed by changing the concentration of POCl<sub>3</sub>. The P content of the fiber was found to increase rapidly up to about 5.3% with an increase of the POCl<sub>3</sub> concentration from 0.5 to 2%. Further increase of the POCl<sub>3</sub> concentration up to

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S/183/61/000/006/002/002 B101/B110

Production of flameprocf

25% caused only an additional increase of the P content of the fiber by about 1%. Data on fibers with different P content: (1) 1,94% P. breaking length 16.1 km, elongation 43%, burns for 1 sec after removing the igniting flame and is then extinguished without smoldering; (2) 6.02% P breaking length 14.7 km, elongation 67%, does not burn nor smolder; (3) polyvinyl alcohol fabric vinol treated with 10% POCl3 solution P content 4.23%, does not burn nor smolder. With increasing P content, the fabrics change color until they get brown. P must be present in the fiber as NHA salt or acid ester, in order to have a flameproofing effect Treatment with hard water leads to the formation of Ca and Na phosphates, whereby the flameproof property gets lost, which can be restored by treatment with 5% NH<sub>4</sub>Cl solution Replacement of CHCl<sub>3</sub> by CH<sub>2</sub>Cl<sub>2</sub> rinsing with  $\mathrm{H_2O}$  instead of  $\mathrm{C_2H_5OH}$ , and shortening the duration of phosphorylation also produced positive results. There are 1 figure, 1 table, and 10 references: 1 Soviet and 9 non-Soviet. The four most recent references to English-language publications read as follows. G L Drake, jr., W. A. Reevs, J. D. Guthrie. Text. Res. J., 29, 270 (1959); S. R. Hobart, G. L. Drake, jr., J. D. Guthrie, Text. Res. J., 29, 844 (1959); J. C. Daul. Card 2/3

Production of flameproof ...,

**S/183/61/000/006/002/002** B101/B110

J. D. Reid, R. M. Reinhardt, Ind. Eng. Chem., 46, 1042 (1954); W. A. Pons, jr., M. F. Stansbury, C. L. Hoffpauir, J. Assoc. Offic. Agr. Chemist, 36, 492 (1953).

ASSOCIATION: LTI im S. M. Kirova (LTI imeni S. M. Kirov)

Card 3/3

VFYDEMAN, Ye.B.; MEOS, A.I.

Means for reducing the amount of hydrogen sulfide liberated in the action of spinning bath on viscose. Khim.volok. no.6:39-41 '61. (MIRA 14:12)

 Leningradskiy tekstil nyy institut imeni S.M.Kirova. (Hydrogen sulfide) (Viscose)

MEOS, A.I., VISHNYAKOVA, M.N.

Electron-microscopic study of the supermolecular structure of some chemical fibers.

Report presented at the 13th Conference on High-molecular compounds Moscow, 8-11 Oct 62

AFANAS'YEVA, G.N., MEOS, A.I., VOL'F, L.A.

Method of producing high-strength polyvinyl alcohol fibers.

Report presented at the 13th  $^{\rm C}{\rm onfe}{\rm rence}$  on high-molecular compounds Moscow, 8-11 Oct 62

MEOS, Aleksandr Ivanovich; MOSKIN, Ye.S., red.; FREGER, D.P., red.

[Properties and use of synthetic fibers]Svoistva i primenenie sinteticheskikh volokon. Leningrad, 1962. 26 p. (Leningrad-skii dom nauchno-tekhnicheskoi propagandy. Ohmen peredovym opytom. Seriia: Sinteticheskie materialy, no.6)

(MIRA 15:12)

(Textile fibers, Synthetic)

VEYDEMAN, Ye.B.; MEOS, A.I.

Effect of sodium sulfite on the reaction of carbon disulfide with alkali. Izv.vys.ucheb.zav.;khim.i khim.tekh. 5 no.3:477-479 (MIRA 15:7)

l. Leningradskiy tekstil'nyy institut imeni S.M. Kirova, kafedra tekhnologii khimicheskikh volokon.

(Carbon disulfide)

(Alkalies) (Sodium sulfite)

TATEVOSYAN, Ye.L.; MAKAROVA, T.P.; MEOS, A.I.

Effect of the conditions of mercerization and of cellulose quality on filterablity during continuous mercerization.

(MIRA 16:2)

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Tatevosyan, Makarova).

2. Leningradskiy tekstil'nyy institut (for Meos).

(Mercerization) (Cellulose) (Figiters and filtration)

MECS, A.I.; VOL'F, L.A.; AFANAS'YEVA, G.N.

New type of insoluble fibers made from polyvinyl alcohol.

Khim. volok. no.3:18-20 '63.

1. Leningradskiy tekstil'nyy institut.

(Textile fibers, Synthetic)

(Polyvinyl alcohol)

AFANAS'YEVA, G.N.; VOL'F. L.A.; MECS, A.I.; GORBACHEVA, V.O.; MIKHAYLOV, N.V.; MIL'KOVA, L.P.

Thermoplasticization stretching of polyvinyl alcohol fibers. Khim. volok. no.5:16-19 '63. (MIRA 16:10)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova (for Afanas'yeva, Vol'f, Meos). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Gorbacheva, Mikhaylov, (Mil'kova).

RM/MAY AFFTC/ASD Pc-4 EWP(j)/EWT(m)/BDS L 18408-63

AP3006186 ACCESSION NR:

s/0080/63/036/007/1587/1591

Afanas 'yeva, G. N.; Vol'f, L. A.; Meos, A. I.; Slutsker, A. I.; Frenkel', S. Ya. AUTHORS:

Analysis of the orientation of highly-ordered regions in strengthened fibers prepared from polyvinyl alcohol. 15 TITLE:

Zhurnal prikladnoy khimii, v. 36, no. 7, 1963, 1587-1591 SOURCE:

TOPIC TAGS: high-temperature extrusion, plastics, X-ray diffraction

ABSTRACT: Authors studied the orientation of hardened fibers and compared the obtained results with freshly prepared and untreated They hoped by this to either prove or disprove the effect of hydrogen bonding and the orientation on the rigidity and solubility of these fibers in water which were prepared from polyvinyl alcohol. The orientation of highly aligned crystallites were evaluated by X-ray diffraction by both a photographic method and ionization registration method. It was shown that the analyzed polyvinyl alcohol fibers are highly crystalline and that the crystallites are

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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ACCESSION NR: AP3006186 oriented around the fiber axis or C-axis of its elemental cells. Thus, the results of X-ray diffraction analysis showed that, during thermoplastication stretching, some structural changes take place, resulting in a considerable increase of crystallite orientation as well as of rigidity. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: Leningradskiy tekstil nywy institut imeni S. M. Kirova (Leningrad textile institute), Institut vy\*sokomolekulyarny\*kh soyedineniy, AN, SSSR (Institute of high-molecular compounds, AS, SSSR), Leningradskiy fiziko-tekhnicheskiy institut imeni A. F. Ioffe, AN, SSSR (Leningrad physics-engineering institut) SSSR (Leningrad physics-engineering institute) 00

19Dec62 SUBMITTED:

DATE ACQ: 25Sep63

ENCL:

CH. MA SUB CODE:

004 NO REF SOV:

002 OTHER:

Card 2/2

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

BUDYLOV, A.V.; VOL'F. L.A.; MEOS, A.I.; MAKAROVA, T.P.; SHEMKOV, N.K.

Studying the kinetics of the formation of the structure of polyvinyl alcohol fibers. Khim. volok. no.2:24-27 '64.

(MIRA 17:5)

1. LITILP im. S.M. Kirova (for Budylov, Vol'f, Meos).

1. LITILY 1m. 5.m. Altova (101 Eddylov, 102). Leningradskiy filial Vsesoyuznogo nauchno-issledovatel-skogo instituta iskusstvennogo volokna (for Makarova). 3. Leningradskiy zavod iskusstvennogo volokna (for Shemkov).

ACCESSION NR: AP4027716

5/0183/64/000/002/0043/0048

AUTHORS: Meos, A.I.; Vishnyakova, M.N.; Dumitrin, M.

TITLE: The action of modifiers in forming supermolecular structures

of viscose fibers

SOURCE: Khimicheskiye volokna, no. 2, 1964, 43-48

TOPIC TAGS: viscose fiber, formation, supermolecular structure, modifier, cyclohexylamine, polyethyleneglycol, hydroxyethylated amine, zinc sulfate, mechanism, electron microscope, production condition, tire cord, fiber uniformity, fiber strength, pH control, structure forming zone, buffer, cellulose xanthate

ABSTRACT: The structures of viscose fibers obtained by adding modifiers (cyclohexylamine, polyethyleneglycol and hydroxyethylated amines) to the viscose were examined with an electron microscope in order to determine conditions most suitable for the production of uniform tire cord. A mechanism for the action of the modifiers is proposed. The structure of fibers which were most uniform were produced from viscose containing modifiers and an increased zinc

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sulfate content and had low acidity in the settling bath; these structural elements were well formed and have smaller and more uniform diameters than fibers formed under other conditions. The proposed mechanism for the action of modifiers is that they help maintain the proper pH in the active structure-forming zone, forming onium compounds in an acid medium and destroying them in alkali. In the settling bath the zinc also acts as a buffer. The modifier acts as buffer on the surface and zinc acts on the internal half of the active structure forming zone. Besides acting as buffer, the modifier changes the solubility of the cellulose xanthate, forming an ample number of centers for the formation of structural elements which in turn leads to the formation of small diameter structural elements. It is concluded that the well-formed sections of macromolecules indicate that zinc xanthate is not formed in the structureforming process; the zinc sulfate neutralizes the caustic in the viscose jets. Increasing the acidity of the settling bath accelerates the viscose fiber forming processes to such an extent that the buffering action of the modifier and zinc are suppressed and the structure forming zone is extremely small. Original transfer and the structure forming zone is extremely small. and 7 equations.

Card 2/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

AÇCESSION NR: AP4027716

ASSOCIATION: LITLP im. S. M. Korova (Leningrad Institute for the SUBMITTED: 26May63 DATE ACQ: 22Apr64 ENGL: 00

SUB CODE: MT NR REF SOV: 007 OTHER: 005

Cord 3/3

5/0026/64/000/001/0082/0084 AP4015058 ACCESSION NR: L. A. (Candidate of chemical sciences); Meos, A. I. (Professor) antiseptic fiber TITIE: SOURCE: Priroda, no. 1, 1964, 82-84 TOPIC TAGS: textile, fiber, fabric, germicide, fungicide, antiseptic, Letilan, Biolan, Icdin ABSTRACT: New antiseptic fibers -- Letilan, Biolan and Todin -- have been developed by the special problems laboratory of the Leningradskiy tekstil'ny\*y institut im. S. M. Kirova (Leningrad Textile Institute). The method of fiber treatment consists in the chemical bonding of reagent and fiber. These fibers not only are germproof and fungus-proof but also, for the comparatively small group of microorganisms so far investigated, possess germicidal and fungicidal properties effective practically throughout the life of a finished article. Especially effective is Letilan, created jointly with a group of coworkers from the Institut organicheskogo sinteza (Institute of Organio Synthesia), Academy of

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ACCESSION NR: AP4015058 Sciences Latvian SSR, headed by In Figures 1-4 of the Enclosure. full range of these fibers' antiseeffect on the human and animal or	mtic effectiveness. 89 W	all as any por	summarized ine the ssible side	
ASSOCIATION: Leningradskiy tekst Textile Institute)	il'ny*y institut im. S.	M Kirova (Le	ningred 	
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	ACCESSION NR: AP4040527 S/0080/64/037/006/1349/1355  AUTHOR: Afanas'yeva, G. Na. Bessonov, M. I.; Vol'f, L. A.; Meos, A. I.; Frenkel', S. Ya.
	TITIE: Study of the thermomechanical properties of high strength polyvinylalcohol fibers by the isometric method  SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 6, 1964, 1349-1355
	TOPIC TAGS: polyvinylalcohol fiber, high strength fiber, isometric test method, thermomechanical property, thermally stabilized fiber, cord fiber, acetalated fiber, heat stretched fiber, fiber stretching, fiber shrinkage, elongation, chemically treated fiber, orientation, fiber orientation index
	ABSTRACT: The physical and technological properties of high strength polyvinylalcohol (PVA) fibers obtained by thermally plasticized stretching at temperatures near the softening temperature were studied. Tests were run on an automatic apparatus provided with a highly sensitive compensating dynamometer, as described by A. P. Rudakov Avtomatizirovanny dinamometr dla ispy*taniya plenok i volokon i opy*t ego ispol'zovaniya. (Automated dynamometer for testing films and fibers
	Card 1/4

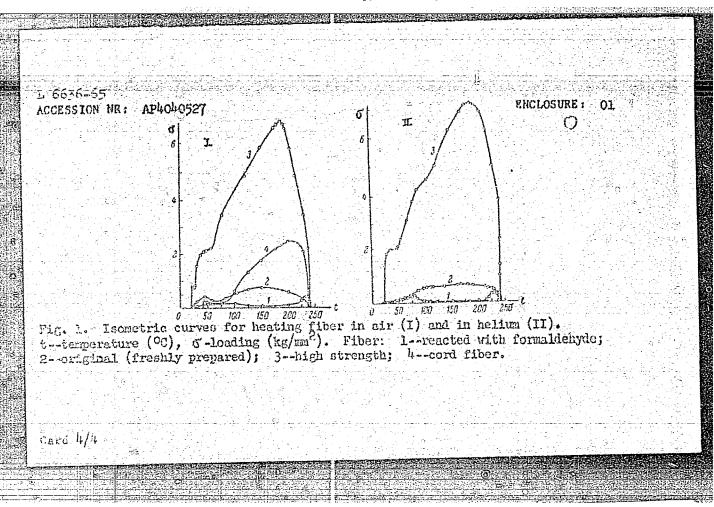
L 6636-65

ACCESSION NR: AP4040527

and testing of its applications), IX nauchnaya konferentsiya IVS AN SSSR ]. were run in air and in inert atmosphere at different rates of heating on freshly formed fiber, on cord fiber on fiber subjected to thermal stabilization and fiber acetalated with formaldehyde. The heat-formed stresses in rigidly fixed samples heated at 2.7 C/min. are shown in fig. 1. The low temperature maxima resulted from drying the fiber; the high temperature maxima are characteristic of the degree of fiber orientation. The magnitude of the stress at the maximum can serve as an index to the oriented state of the fiber. The hot-stretched fiber has the best indexes for the degree of orientation and also for modulus of elasticity, deformation and other parameters determining the performance of fibers in a wide temperature range. The untreated and chemically treated fibers do not show sharp maxima. The low values in the formaldehyde-treated fiber are indicated due to the limited segmental mobility of the macromolecules bound to the acetal bridges; the rise at 225-240C is due to the breaking of those bridges. At a greater rate of heating the maxima are shifted somewhat toward higher temperatures. The high strength fiber shows no deformation when subjected to small loads (1.76 kg/mm²) at regularly increased temperature, until the 200-2200 range, where it actually shrinks. Shrinkage stops as the temperature approaches 2400, the softening point of the

Card 2/4

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L 6636-65 ACCESSION NR:	Apholioso7			$\boldsymbol{\lambda}$
Attam and Atta	anded of 10 one	s (5.27, 10.53 kg/mm <sup>2</sup> ) the d 600 causing some elongat its properties up to 180	GION. DUG GHS H	Titt porengon
Textile Insti	Ieningradskiy tute);Institut ular Compounds	tekstil'ny*y institut im vy*sokomolekul yarny*kh )	eni S. M. Kirov soyedineniy AN	a i (Leningrad SSSR (Institute
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. 35567-65 EWP(J)/EWT(m)/T ACCESSION NR: AF5008186	s/c	0286/65/000/005/0062/0062
AUTHORS: Vol'f, L. A.; Maos	, A. I.	В
FIRE: A method for modifyi	ing fibers and films. Class	29, No. 168849 15
SOURCE; Byulleten' izobrete	eniy i tovarnykh znakov, no.	5, 1965, 62
	ntisepsis, bactericide, ion	and the state of t
ABSTRACT: This Author Certi	ificate presents a method for antiseptics. To obtain fib objectibers and films are fi	r modifying fibers and ers or films with bacte- rst treated at 700 with
ABSTRACT: This Author Certifilms by treating them with ricidal properties, hydrophologopals and then with anti-	ificate presents a method for antiseptics. To obtain fib objectibers and films are fi	r modifying fibers and ers or films with bacte-

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AUTHOR:	Vol'f. L. A.; Meos, A. I.; Eurinskiy, S. V. Chemical treatment of poly(vinyl alcohol) fibers. Cl	B. ass 29.
No. 166	Chemical treatment of poly(viny) alcoholy 222222222222222222222222222222222222	
TOPIC T ABSTRAC chemics treated	TAGS: fiber, poly(vinyl alcohol), fiber treatment  CT: An Author Certificate has been issued for a process  al treatment of poly(vinyl alcohol) fibers. The fibers  d with formaldehyde in water in the presence of sulfure  sulfate, and hydroquinone. Hydroquinone is added to a  and fabrics which have electron-exchange [sic] proper	s for the are le acid, produce
ASSOCIA	ATION: none	
	보고, 1965년 1일 전, 1964년 1일 <b>시</b> 원 전, 1965년 1일 전, 1964년 1일 전, 1967년 1일 세 대한 지수 있는 것은 지난 학교 수 있습니다.	i se dilental i dell'

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

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ACCESSION NR: AP4036852

8/0286/64/000/009/0075/0075

AUTHOR: Vol'f, L. A.; Moos, A. I.; Inkina, S. A.

TITLE: A method for producing modified resins and antistatic fibers. Class 39, No. 162314

SOURCE: Byul. izobr. i towar. znakov, no. 9, 1964, 75

TOPIC TAGS: resin, fiber, artificial fiber, antistatic fiber, modified resin, polyvinyl alcohol, cation, cation resin, cation exchange resin

ABSTRACT: This author's certificate introduces a method for producing modified resins and antistatic fibers based on polyvinyl alcohol. In order to give them cation exchange properties, the resin and articles made from polyvinyl alcohol are treated with benzaldehyde-2,4-disulfonic acid.

ASSOCIATION: none

SUBMITTED: 03Mar61

DATE ACQ: 02Jun64

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: OCO

OTHER: 000

Card 1/1

I 22385-65 640(m)/EMP(j), T Pc-4 RM

ACCESSION NR: AP5007177

\$/0286/65/000/003/0045/0045

AUTHOR: Vol'f, L. A.; Meos, A. I.; Shimanskiy, P. Ye.

TITLE: A method for producing acetalated polyvinyl fiber. Class 29, No. 167949

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 45

TOPIC TAGS: polyvinyl, fiber

ABSTRACT: This Author's Certificate introduces a method for producing acetalated polyvinyl fiber by treating fibers from polyvinyl alcohol with an acetalating aldehyde in an aqueous medium. In order to expand the assortment of fibers based on polyvinyl alcohol, benzaldehyde is used as the acetalating aldehyde.

ASSOCIATION: none

SUBMITTED: 25Feb63

ENCL: 00

SUB CODE: MT

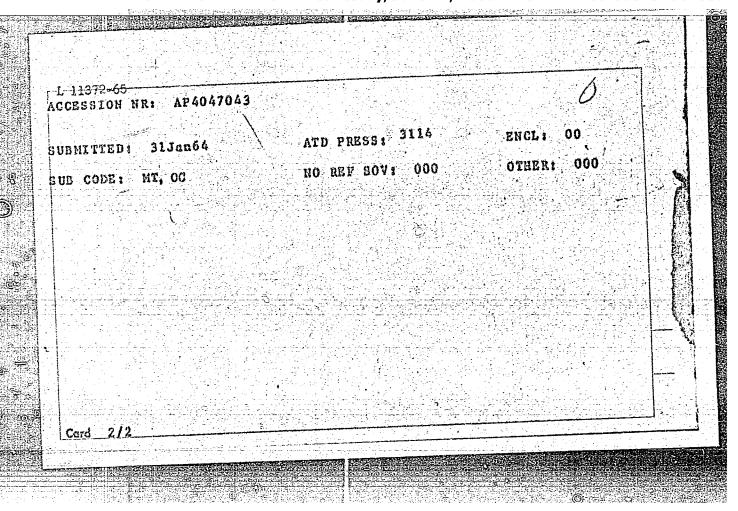
NO REF SOV: 000

OTHER: 000

Card 1/1

L 11372-65 ENT(m)/EPF(c)/ENP(j)/T Pc-4/Pr-4 RM ACCESSION NR: AP4047043 S/0286/64/000/018/0044/0044  AUTHOR: Meos, A. I.; Vol'f, L. A.; Podlesskaya, N. K.; Orlov, N. F.; Vorenkov, H-0  TITLE: Method for the chemical treatment of previously heat- stabilized poly(vinyl alcohol) (PVA) fibers and fabrics. Class 29, Ho. 165273  SOURCE: Byul. izobr. I tovar. 2nakov, no. 18, 1964, 44  TOPIC TAGS: water repellancy, polyvinyl alcohol, polyvinyl alcohol fiber, polyvinyl alcohol fabric, silicone, finish  ABSTRACT: An Author Certificate has been issued for a method for treatment of previously heat-stabilized poly(vinyl alcohol) fibers treatment of previously heat-stabilized poly(vinyl alcohol) fibers and fabrics with a water-repellant finish. In order to enhance the water repellency of the fibers and fabrics, organosilicon compounds water repellency of the fibers and fabrics, organosilicon compounds of the alkylsiliconate [sic] or alkylsilioxane type are used.  ASSOCIATION: -none

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033



· 拉克·拉克·亚克纳。用此时的海洋的名词复数自然使用海南部种植产品或类似的多类的结核等等的影響的对		
	1) 1 Maria A Maria	1 USSR)
	Art. Jecial Jebers	
MEOS, A.I.		
17/200, 7/2		
		,

6153314 PG P 14

Identified: Under the direction of doctor of technical sciences, Prof. A.I. NEOS, the scientists of the institute (Inst of Textile and Light Indimeni S.M. Kirov) have produced, on a base of polyvinyl alcohol, a fiber having double the strength of steel wire.

(Leningradskaya Pravda, 26 Nov 63)

SO:JPRS: 23,340, 24 February 1964, USOR Industrial Development, #148

VEYDEMAN, Ye.B.; HYKOVA, Ye.A.; MEOS, A.I.

Effect of sodium sulfite on viscose property changes during ripening. Khim. volok. no.3:32-34 '64. (MIRA 17:8)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im. S.M. Kirova.

POLYAK, A.B.; TATEVOSYAH, Ye.L.; KUPTSAN, N.A.; MEUS, A.I.

Changes in the conformation of cellulise links occurring during mercerization and pre-riping. Knim. volok. no.413~41 '64.

(MIRA 1814)

1. Lesotekhnicheskaya akademiya im. S.M.Kirova (for Polyak).

2. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Tatevosyan, Kuptsan).

3. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im.

S.M.Kirova (for Meos).

VOL. F, L.A.; MEOS, A.I.; PEREPELKIN, K.Ye.; UTEVSKIY, L.Ye.

Studying the thermomechanical properties of extra-strong polyvinyl alcohol fibers in water. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.5:11-15 64.

1. Leningradskiy institut tekstil noy i legkoy promyshlennosti imeni S.M.Kirova.

TATEVOSYAN, Ye.L.; MAKAHCVA, T.P.; KUPTSAN, N.A.; MEOS, A.I.

Effect of the conditions of the continuous basic treatment of cellulose on the rate of its oxidative degradation. Khim. volck. (MIPA 18:1) no.6:53-36 '64.

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Tatevosyan, Makarova, Kuptsan). 2. Leningradskiy tekstil'nyy institut imeni Kirova (for Meos).

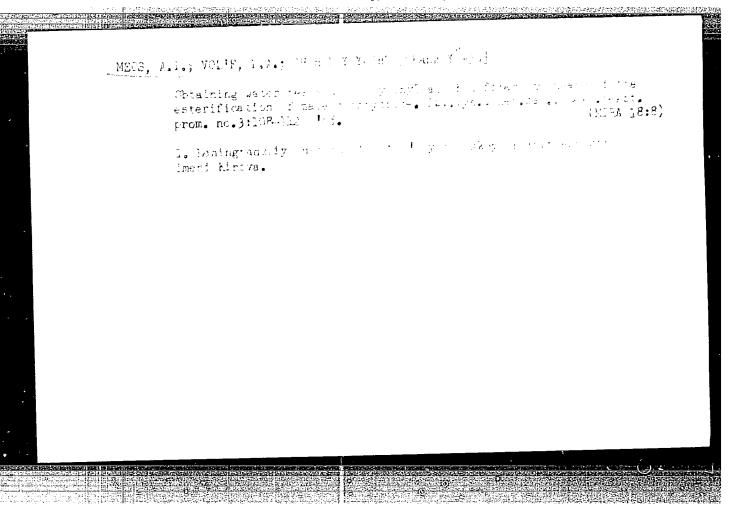
MEOS, I I., doktor tekhn. nauk; VOL'F, L.A., kend. khim. nauk; LEPIN, A.E., red.

[New synthetic fibers; production of fibers from polyvinyl alcohol] Novye sinteticheskie volokna; proizvodstvo volokon iz polivinilovogo spirta. Leningrad, Lenizdat,1965. 50 p. (MIRA 18:9)

VEYDEMAN, Ye.B.; MEOS, A.I.

Formation of sulfides in the reaction of carbon disulfide with the bases. Khim. volok. no.2:34-36 '65. (MIRA 18:6)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im.  $S_*M_*$  Kirova.



TSETTLINA, L.A.; YAMOVSKAYA, N.B.; VOL'F, L.A.; MEOS, A.I.

Phosphorylation of polyvinyl alcohol fibers "vinol" in the presence of tertiary bases. Khim. volok. no.4:16-19 '65.

(MIRA 18:8)

l. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im. S.M. Kirova.

L 51528-65 EMT(m)/EMG(m)/EMP(j)/T Fe-4 HME ACCESSION NR: AP5015309	B
AUTHOR: Burinskiy, S. V.; Vol'f, L. A.; Meos, A.  TITLE: A method for producing an electron exchan	I.    ger based on polyvinyl alcohol
TITLE: A method told plants of fibers, Class 39, No. 170681 ()  SOURCE: Byulleten' izobreteniy i tovarnykh znako  TOPIC TAGS: resin, polyvinyl alcohol, synthetic	ov. no. 9, 1965, 70
TOPIC TAGS: resin, polyvinyl alcohol, the inorganic acid, catalysis  ABSTRACT: This Author's Certificate introduces ic exchanger based on polyvinyl alcohol fibers is exchanger based on polyvinyl alcohol fibers in an aqueous medium us quinone and formaldehyde in an aqueous medium us quinone action exchanger is produced in the form of factory static capacity by using orthophosphoric	a method for producing an electronic and treating these fibers in hydro- ging inorganic acids as a catalyst.
ASSOCIATION: none	
Card 1/2	

L 51528-65						0	
ACCESSION NR:		ENCL:	00	SUB	CODE:	MT, GC	
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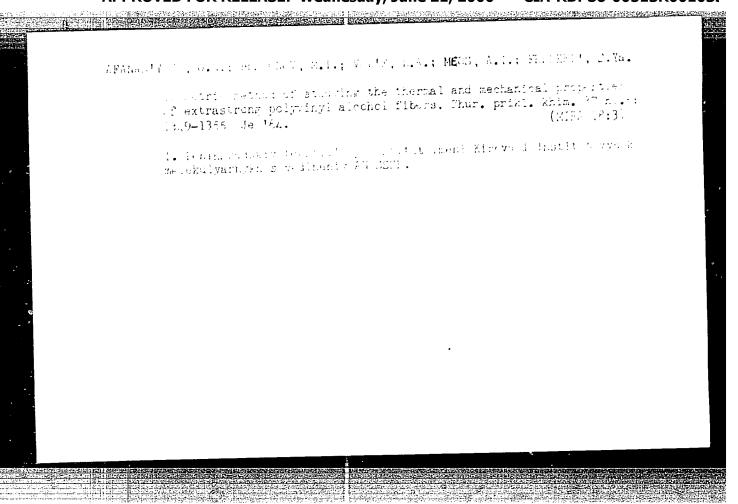
TATEVOSYAN, Ye.L.; MAKAROVA, T.P.; MEOS, A.I.

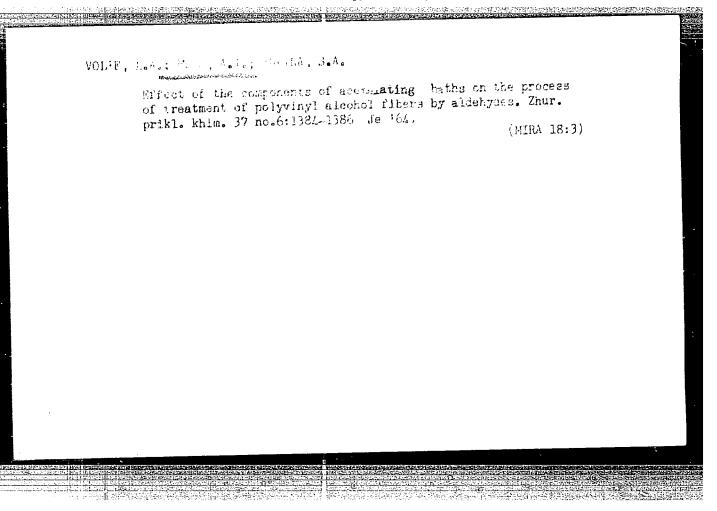
Characteristics of alkali cellulose prepared by the continuous method. Khim. volok. no.4:26-29 165. (MIRA 18:8)

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'akogo instituta iskusstvennogo volokna i Leningradskiy tekstil'nyy institut im. S.M. Kirova.

		보다는 마시크 보다는 함께 함께 보면한 독특별 출연한 1980년 - 1985년 - 1985년 - 1987년 1987년 - 1988년 -
65139-65 EWT(m)/EHP(j)/		
ACCESSION NR: AP5021585  AUTHORS: Kharit, Ya. A.; Me	11.55 IR/O	286/65/000/01,3/0056/0056
AUTHORS: Kharit, Ya. A.; Me	os, A. I.; Vol'f, L. A.; Ves	a, V. S. 41.63 27
Tillu: A mothod for obtaini	ng water-resisting polyvinyl	alcohol and its products.
Class 29, No. 172450 15		
SOURCE: Byulleten' izobrete	niy i tovarnykh znakov, ne.	13, 1965, 56
TOPIC TAGS: alcohol, polyvi	nyl alcohol, acetylizing age	nt is a second of the second
ABSTRACT: This Author Certificating polyvinyl alcohol agent. To improve the property $\Delta^5$ -cyclohexene are used as	and its products by treating rties of the materials produ	them with an acetylizing
ASSCCIATION: none		
SUBNITTED: 16Jan64	ENCL: 00	SUB CODE: OC
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L 2947-66 EPA(s)-	2/EFT(m)/EFP(j) RM	UR/0286	/65/000/016/0064/006	4
ACCORDING MR: APS	25005		4.2	
	Vol'f. L. A.; Kiri	lenko, Yu. K.	1,56	15
AUTHON: MEUR A	Vol'f, L. A.; Kiri	le(winwl alcohol)	Class 29, No. 1738	<u>16:</u>
TITLE: Chemical t	reatment method for po		-ace ch	
	I Inchanteniy i toyal	Why znakov, no. 10,		
SOOKCE: DATECON	inyl alcohol, organic	conductor. semi	conducting polymer,	
TOPIC TAGE: poly	inyl alcohol, organic	PCW CAMPANA		
dehydracion	불빛이 기괴되었다. 관리공동하는 생긴		seal treatment metho	od
dehydracion	or Certificate has be	en issued for a ches	ical treatment metho	id Io
dehydration  ABSTRACT: An Auti	or Certificate has be	en issued for a chem ration on heating in	ical treatment method an inert medium. I	
ABSTRACT: An Auti for poly(vinyl al	or Certificate has be cohol) involving dehyd	en issued for a chem ration on heating in ity, semiconducting	ical treatment method an inert medium. I and other special	
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ABSTRACT: An Auti for poly(vinyl al	or Certificate has be schol) involving dehyd stance, thermal stabil (vinyl alcohol) end p	en issued for a chem ration on heating in ity, semiconducting	ical treatment method an inert medium. I and other special	
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dehydration  ABSTRACT: An Autifor poly(vinyl alimpart water resiproperties to polyin a heterogeneous metals or benzene  ASSOCIATION: non	or Certificate has be cohol) involving dehyd stance, thermal stabil (vinyl alcohol) end predict with dehydrat sulfonic scid.	en issued for a chem ration on heating in ity, semiconducting roducts, the dehydra- ing agents such as; ac	ical treatment method an inert medium. I and other special	u]
ABSTRACT: An Autifor poly(vinyl alimpart water resiproperties to polyin a heterogeneous metals or benzene	or Certificate has be sohol) involving dehyd stance, thermal stabil (vinyl alcohol) end p medium with dehydrat sulfonic scid.	en issued for a chemitation on heating in ity, semiconducting roducts, the dehydrating agents such as: acceptance of the control of the contr	ical treatment method an inert medium. I and other special ation is carried out aid salts of alkali [S:	w] oc. <b>c</b> c
dehydration  ABSTRACT: An Autifor poly(vinyl alimpart water resiproperties to polyin a heterogeneous metals or benzene  ASSOCIATION: non	or Certificate has be sohol) involving dehyd stance, thermal stabil (vinyl alcohol) end p medium with dehydrat sulfonic scid.	en issued for a chem ration on heating in ity, semiconducting roducts, the dehydra- ing agents such as; ac	ical treatment method an inert medium. I and other special ation is carried outsid salts of alkali	w] oc. <b>c</b> c

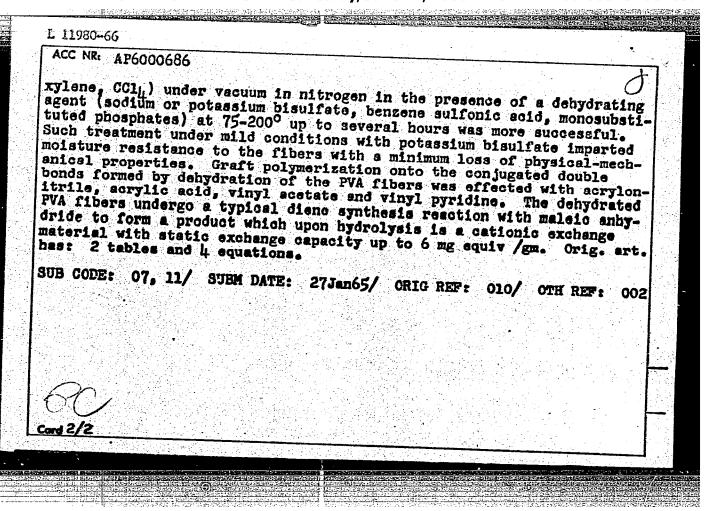


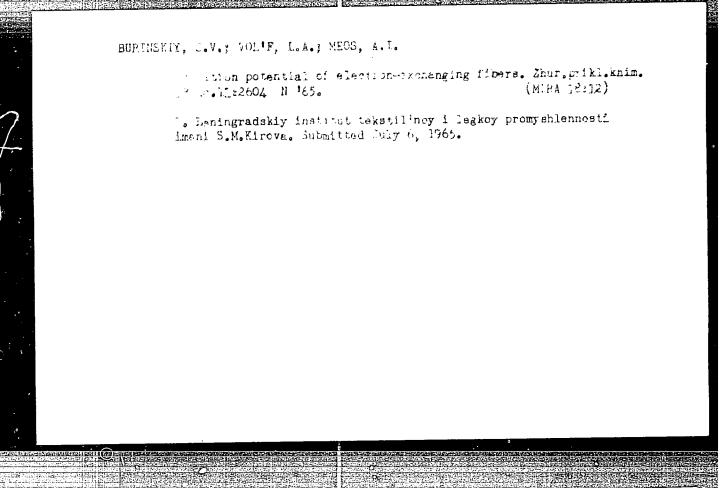


L 57776-65 E ACCESSION NR:	WP(j)/EWT(m)/TPc-4 AP5017785	UR/0080/65/038/007/1638/1638 547.361.2+541.64
AUTHOR: Kiri	llenko, Yu. K.; Vol'	f, L. A.; Meos, A. I.; Girdyuk, V.
TITLE: Diels	-Alder modification	of poly(vinyl alcohol) and of fiber
TOPIC TAGS: mer, diene, d  ABSTRACT: Po partially del The resulting (up to 6 mg-	polyvinyl alcohol, dienophile, diene ac oly(vinyl alcohol) a hydrated and then al g Diels-Alder adduction according to the section according to th	modified polymer, ion exchange polyddition and poly(vinyl alcohol) fibers were llowed to react with maleic anhydride t had some cation-exchange capacity with other dienophiles (e.g., p-benic acid, acrolein) can impart new preand fibers made from it. [VS]

	L 57776-65 ACCESSION NR: AP501778 ASSOCIATION: Leningrad nost1 imeni S. M. Kirov	skiy instit a (Leningra	ut teks d Texti		
	1807.200e		Ø0	SUB CODE:	oc, MT
	SUBMITTED: 07Jan65 NO REF SOV: 900	OTHER:	000	ATD PRESS:	4041
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EVIT (m)/EVF(j)/T UR/0080/65/038/009/2091/2096 SOURCE CODE: ACC NR: AP6000686 Kirilenko, Yu. K.; Meos, A. I.; AUTHOR: ORG: Leningrad Institute for the Textile and Light Industry im. S. Kirov (Leningradskiy institut tekstil noy i lagkoy promyshlennosti) 当科学 and modifications in the TITLE: Dehydration of polyvinyl alcohol fibers diene sections of the chain SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 9. 1965, 2091-2096 TOPIC TAGS: polyvinyl alcohol, synthetic fiber, dehydration, block copolymer, diene synthesis, ion exchange resin ABSTRACT: The possibility of dehydrating polyvinyl alcohol (PVA) fibers to increase their moisture resistance without destroying their physicalmechanical properties was investigated, and also the possibility of mod-ifying the dehydrated PVA fibers by graft polymerization. Dehydration of oriented PVA was attempted by heating in nitrogen to 220°C, in dilute adipic, maleic or boric acid to 180°, and in air to 220°. Dehydration was not effected in the first two media. Heat treatment in air for 5 min reduced the OH-group content by 5-7 mol%, and after 40 min by 30-40 mol%. This incressed the moisture resistance but greatly reduced fiber strength. Treatment of PVA fibers in inert media (n-slkane, toluene, 542.936+547.361.2+54--126 Card 1/2





But were the state of the state
L L203L-66 E/T(m)/EMP(j)/T IJP(c) WW/RM  ACC NR. AP6011223 (A) SOURCE CODE: UR/0413/66/000/006/0060/0060  INVENTOR: Meos, A. I.; Vol' f, L. A.; Kirilenko, Yu. K.; Girdyuk, V. V.
ORG: none  TITLE: Method of chemical processing of polyvinyl alcohol. Class 29, No. 179877
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 60 TOPIC TAGS: polyvinyl alcohol, monomer, acrylonitrile, chemical treatment
ABSTRACT: An Author Certificate has been issued for a method of chemical processing of polyvinyl alcohol. To impart new properties such as a light resistance dehydrated polyvinyl alcohol and its byproducts are treated with dienophilic monomers such as an acrylonitrile. [NT]
SUB CODE: 07/ SUBM DATE: 12Oct64/
Card 1/1 af UDC: 677, 494, 744, 72:677, 864, 512, 15:547, 339, 211

ACC NR. AP6009562	P(j)/T/ETC(m)-6 WW/RM SOUT	CE CODE: UR/0413/66/000	/005/0154/015 <sup>t</sup> /
INVENTOR: Meos, A. I	.; Vol'f, L. A.; Kirilenko.	Yu. K.	L
ORG: none			كأ
TITLE: Method for th	e chemical treatment of pol	y(vinyl alcohol). Class	29, No. 173876
SOURCE: Izobreteniya	, promyshlennyye obraztsy,	tovarnyye znaki, no. 5,	1966, 154
TOPIC TAGS: organic resistant polymer, wa	semiconductor, semiconduct ter resistant polymer	lng polymer, polyvinyl a	lcohol, heat
poly(vinyl alcohol) a inert medium. To imp	Certificate has been issued and end-products from it, is art water- and heat-resist the poly(vinyl alcohol) ent with acid salts of alk	ance; and semiconducting	B and other is carried
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되었다. 하시는 사람이 되는 모	UBM DATE: 23Jun64/ ATD P	RESS: 4222	
	NUBM DATE: 23Jun64/ ATD P	RESS: 4222	

EWP(1)/ENT(m /ETC(1)/EWG(m)/T HIVDS. L 17720-66 SOURCE CODE: UR/0190/66/008/001/0065/0068 ACC NR: AP6003414 AUTHORS: Burinskiy, S. A.; Vol'f, L. A.; Mece, A. I. ORG: Leningrad Institute of Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstill noy i legkoy promyshlennosti) TITIE: Electron exchangers based on hydroxyl-containing fibers SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 65-68 TOPIC TAGS: polymer, copolymer, graft copolymer, polycondensation, phenolic plastic, phenolformaldehyde, synthetic fiber ABSTRACT: A method for the production of electron-exchange fibers by the graft copolycondensation of polyhydroxyl phenols and formaldehyde with hydroxyl-containing fibers was developed. The experimental procedure followed here was similar to that described by R. Tsereze (Blok-i privityye sopolymery, Isd. Hir, M., 1964). The experimental results are tabulated. It was found that the redox capacity of the fibers was 1.5 to 4 mg - equiv/g. From structure studies of the graft polymers, it is concluded that the polymer chains are partially crosslinked. The redox fibers were found to possess a considerable resistance to acid and alkalies. Orig. art. has: 1 table.
SUB CODE:0311/ SUBM DATE: 12Feb65/ ORIG REF: 003/ OTH REF: 001 UDC: 678.01:53 Card 1/1 mat

WW/RM EWT(n)/EMP(j)/T ւ և1639-66 UR/0080/66/039/002/0388/0393 SOURCE CODE: (A) ACC NR: AP6008273 61 AUTHOR: Kiseley, G. A.; Vol'f, L. A.; Heos, A. I. ORG: Leningrad Institute of Textile and Light Industry imeni S. H. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti) TITLE Inflammable polyvinyl alcohol fiber based on the reaction of PVA with dimethylol ures and tetramethylol phosphorous chloride Zhurhal prikladnoy khimii, v. 39, no. 2, 1966, 388-393 TOPIC TAGS: synthetic fiber, polyvinyl alcoholy fire resistant material, CHEMICAL BONDOWS, ESTERIFICATION ABSTRACT: An inflammable polyvinyl alcohol fiber is produced by an initial crosslinking with HO-CH2-NH-C-NH-CH2-OH (I) and subsequent reaction with (HOCH2)4PC1 (II). (I) is prepared by a condensation reaction of urea: formaldehyde in a molar ratio of 1:2.5 in neutral or alightly alkalina solution at 60-70°C. In the esterification reaction between PVA fiber and (I), the fiber is placed in a solution of (I) and kept at 70°C for 30 min. The fiber is then cuntrifuged (5000 rpm) for 5 min and subsequently heated at 155-160°C for 8-10 min. The extent of centrifugation affects the degree of esterification of the fiber. It was found that the greater the extent of centrifugation, the smaller the degree of esterification. The resulting ester bonds are stable at pH from 6-12 but are unstable in acid solution, breaking down at pH equal to 3. In the UDC: 547.361.2-126 **Card 1/2** 

	in a noutral o	solution) at 70°	s solution of 10 of C for 30 min. To	he		
iolamine (to susta	to sustain a neutral solution Analyzing are made for nitro-					
hydroxyl group, and phosphorous contents. Containing at least 2 wt						
horous, it is found to be inflammable. On the basis of the analytical data, 80%						
per is thought to	be doubly bone	y bonded as in	the second formul	a.		
Figures, 1 table.				****		
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	and dried in air and phosphorous in boiling water a found to be inflamer is thought to while 20% appear figures, 1 table.	and dried in air (130 c) for a and phosphorous content of the in boiling water and other reage found to be inflammable. On the per is thought to be doubly bond, while 20% appears to be triply figures, 1 table.	and dried in air (130 c) for minimum, and phosphorous content of the fiber. The cin boiling water and other reagents. Containing found to be inflammable. On the basis of the per is thought to be doubly bonded to two nitre, while 20% appears to be triply bonded as in figures, 1 table.	and dried in air (150 c) for many and phosphorous content of the fiber. The crosslinked fiber in boiling water and other reagents. Containing at least 2 wt found to be inflammable. On the basis of the analytical data, per is thought to be doubly bonded to two nitrogen atoms as in while 20% appears to be triply bonded as in the second formula figures, 1 table.		

ORG: Leningrad Institution (Leningradskiy institution) TITLE: Study of ester ride SOURCE: Zhurnal prikl	(A) SOURCE CODE: UR/0080/66/C  V. I.; Meos, A. I.; Vol'f, L. A.  ute of the Textile and Light Industry iment t tekstil'noy i legkoy promyshlemosti)  ification of polyvinyl alcohol fibers with adnoy khimii, v. 39, no. 3, 1966, 664-668  alcohol, titanium compound, synthetic fibers and examines the properties of titan	i S. M. Kirov  titanium tetrachlo  per, esterification  cohol (PVA) fiber	
with titanium tetrach fibers. Esterification	describes the waterproofing polyvinyl discount of describes the waterproofing polyvinyl discount of describes the properties of tital on of PVA fibers with TiCl4 is represented TiCl4+H <sub>2</sub> O  TICL4+H <sub>2</sub> O  TICCL2+2HCL	as follows:	
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ACC NR: AP6011015	7		
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This may be assoc	iated with cross-linking		
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$$+ 4HC1.$$

$$-CH_{3}-CH-CH_{2}-CH-CH_{2}-$$

PVA fibers were treated with TiCl, in an aqueous bath containing sulfuric acid as catalyst. The titanium content of the fiber was found to increase with the TiCl, content in the bath. A 2.5-3 wt % content (4.7-5.7 mole % content) of Ti in the fiber ensures the required water repellency and is optimal. The optimum acid concentration is 7-12%. Orig art. has: 2 figures.

SUB CODE: 11,07/ SUBM DATE: 12Dec64/ ORIG REF: 004/ OTH REF: 007

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

CIA-RDP86-00513R001033

**************************************	L W1213-66 EMT(m)/EMP(1)/T IJP(c) WW/RM ACC NR: AP6015649 (A) SOURCE CODE: UR/0413/66/000/009/0059/0059  INVENTOR: Kirilenko, Yu. K.; Vol' f, L. A.; Meos, A. I.  ORG: none  TITLE: Method for chemical treatment of polyvinyl alcohol. Class 29, No. 181236  SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 59  TOPIC TAGS: polyvinyl alcohol, tertiary amine, halogenation, chemical treatment  ABSTRACT: An Author Certificate has been issued for a method of chemical treatment of polyvinyl alcohol and its byproducts. To add nonflammability, anion-exchange capabilities, and antimicrobe properties, dehydrated polyvinyl alcohol or its byproducts are subjected to halogenation, followed by treatment with a tertiary amine such as a triethylamine. [Translation]  SUB CODE: 07/ SUBM DATE: 12Apr65/
	Card 1/1 JS UDC: 678.744.72:66.093.6.094.403

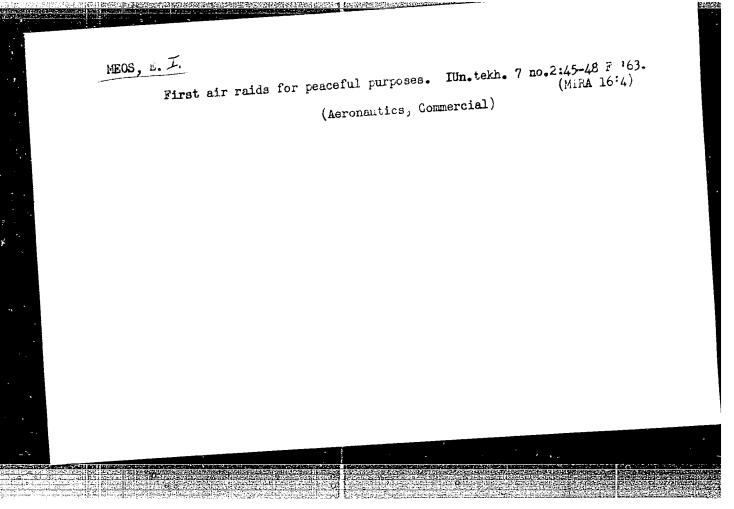
UR/0080/66/039/011/2608/2609 BOURCE CODE: ACC NR. AP7000021 (A,N) Vol'f, L. A.; Khokhlova, V. A.; Kotetskiy, V. V.; Meos, A. I. Konew, Yu. Ye. ORG: Leningrad Institute of the Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti) TITLE: Preparation of antimicrobial polymeric materials by ion exchange with antiseptics SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 11, 1966, 2608-2609 antimicrobial plastic, antiseptic, polyvinyl alcohol TOPIC TAGS: ABSTRACT: A method of imparting antimicrobial properties to polymeric materials, involving the introduction of antiseptics into these materials by means of ion exchange, has been developed. The polymeric materials used were poly(vinyl alcohol) and viscose fibers, but the method is said to be equally applicable for imparting antimicrobial properties to plastic films, plastic articles, and raw and vulcanized rubbers. Poly(vinyl alcohol) was first modified by previously describe methods so as to attach sulfonic or carboxyl groups to it, but the vi viscose, which contains some carboxyl groups, was used as is. fibers were treated with the antiseptics silver, streptomycin, UDC: 677,862,531 ....

colimycin, quinosol, brilliant green, trypaflavine, rivanol, albucid, or streptocid. The antiseptics were applied as 0.1 M aqueous solutions except for the high-molecular-weight antiseptics (streptomycin, brillar except for the high-molecular-weight antiseptics) and solutions. The green) which were used in 1 x 10<sup>-3</sup> -2 x 10<sup>-3</sup> M aqueous solutions. The green) which were used in 1 x 10<sup>-3</sup> -2 x 10<sup>-3</sup> M aqueous solutions. The green without and trichophyton (Staphilococus aureus) and molds (Candida albicans and Trichophyton (Staphilococus aureus) and Trichophyton (Staphilococus aureus) and Trichophyton (Staphilococus aureus) and molds (Candida albicans and Trichophyton (Staphilococus aureus) and Trichophyton (Staphilococus aureus) an

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SOURCE CODE: UR/0413/66/000/013/0075/0075 ACC NR: AP6025618 INVENTORS: Vol'f, L. A.; Meos, A. I.; Inkina, S. A. ORG: none A method for obtaining ion-exchanging fibers and fabrics. Class 39, No. TITLE: 183375 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye poki, no. 13, 1966, 75 TOPIC TAGS: ion exchange, fiber, fabric, polyvinyl, alcohol, aldehyde ABSTRACT: This Author Certificate presents a method for obtaining ion-exchanging fibers and fabrics by acetalyzing with aldehydes the fibers and fabrics based on polyvinyl alcohol. To obtain ion-exchanging materials, aldehydes containing amino groups or pyrridone cycles are used as aldehydes. The acetylyzed haloid product is then alkylated and treated with a base. SUB CODE: 11/ SUBM DATE: 14Dec61 661.183.12:677.494.744.72:677.862.22 1/1 Card



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(Parachutes) (	Kotel'nikov,	Gleb Ewgenje	evich, 1872-19	44)	

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ACCESSION NR: AP4041995	s/0057/64/034/007/1206/1209
TITLE: Generator of nanosecond pulses with a surface. Source: Zhurnal tekhnicheskoy fiziki, v.34, no.7 Topic tags: pulse generator, klystron, nanosecond klystron type capable of delivering 10-v pulses repetition rate of 3 x 108 sec-1, and weaker pulse a 108 sec-1. The pulse generator operates with watts of RF excitation. The good performance of a high bunching voltage, of the order of the beau short drift tube to be employed and thus avoid countered with longer drifts. The instrument it is of glass-Kovar construction and contains the electron gun; a Kovar collar; the drift tube, for the collector, which projects beyond the glass	d pulse generation  1 terms a pulse generator of the with a 0.4-nanosec rise time at a ses at repetition rates of up to a 350-v 50 mamp electron beam and 5 this instrument is due to the use of am acceleration voltage; this permits is a number of debunching effects ense constructed in two parts. One part following components in order: the

ACCESSION NR: AP4041995

and consists of a tunable resonant cavity to develop the bunching voltage at the pulse repetition frequency and a broad band coupling device to transfer the pulses, generated at the output gap between the drift tube and the collector, to a coaxial cable. The glass generator tube presumably fits inside the resonance cavity, although the authors do not state this explicitly. Output oscillograms are reproduced in a figure. The pulse generator described in this paper has the following advantages over the somewhat similar device described by W.H.Cornetet and I.G.Josenhans (IRE Trans. on Electron Device, ED-8, No.6, 1961); it is of simpler construction, has a higher pulse repetition rate, requires less RF excitation, employs a higher perveance electron beam, uses a lower accelerating potential, does not employ magnetic focusing, and does not require air-blast cooling. The pulse amplitude, however, is only half that of the Cornetet-Josenhans instrument. Orig.art.has: 3 figures.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im.V.I.Ui'yanova-Lenina (Leningrad Electrotechnical Institute)

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ENT(1)/ENA(b) S/0275/64/000/012/A021/A021 L 00005-66 ACCESSION NR: AR5005449 621.385.623.4 Sec. The SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 12A110 AUTHOR: Meos, V. A. TITLE: Analysis of the output signal of a klystron-type pulse generator 25 CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vyp. 53, 1964, 236-257 TOPIC TAGS: klystron generator, pulse generator, klystron pulse generator TRANSLATION: An engineering calculation of the harmonic content and electronpacket shape, in the output gap of a pulse generator, according to a kinematic theory of bunching is presented. An output device is considered in which a coaxial line is end-excited by the electron beam. An equivalent circuit of the output device, as well as a formula for the current as the sum of the harmonics with definite amplitudes and phases are presented. The output device of the klystrontype generator must ensure interaction with all harmonics of the electron packet. A formula for the output-gap admittance at the n-th harmonic is developed. The output impedance depends on the coaxial-line characteristic impedance, accelerating voltage, gap width, total capacitance, and the number of harmonic. Card 1/2

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Formulas for the n-th harmonic amplitude have been used for calculating spectral characteristics for several modes of operation at the 17th harmonic. The voltage amplitude rapidly falls off for the higher number of harmonic which is due to the decreasing current and output impedance. The output impedance can be increased by inserting an inductance into the coaxial-line circuit. This inductance, represented by a length of shorted coaxial line, necessitates cutting down the capacitance of the output resonator. This entails a smaller diameter of the internal coaxial conductor and a thinner beam. Formulas for the a-c component of the output voltage with and without the inductance are compared. A certain value of the inductance yields a higher output-pulse amplitude without essentially impairing pulse parameters. The above method permits (1) determining, by a kinematic calculation, the spectral composition and output-signal shape of klystron-type pulse generators with sufficient engineering accuracy and (2) determining the optimal parameters of the output device, when the buncher design is specified and a coaxial line is end-excited by the electron beam. Bibliography: 7 titles. ENGL: 00

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Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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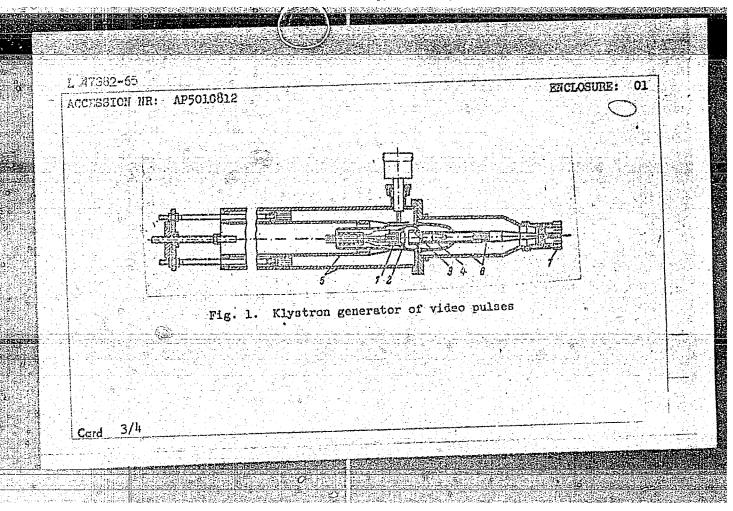
数型(1)/器A(b) ACCESSION NR: AP5008160 5/0286/65/000/005/0038/0038 AUTHOR: Sushkov, A. D.; Mecs, V. A. TITLE: Nanosecond pulse oscillator. Class 21, No. 168755 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 38 TOPIC TAGS: pulse oscillator, klystron, nanosecond pulse ABSTRACT: This Author Certificate introduces a nanosecond pulse oscillator consisting of a klystron with a control grid and a separate excitation circuit (see Fig. 1 of Enclosure). To reduce pulse duration, a section of a waveguide mounted perpendicularly to the electron flow and connected to the control grid by a feedback line serves as the output system. Orig. art. has: 1 figure. ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute) SUBMITTED: 210ct63 ENCL: 01 SUB CODE: EC NO REF SOV: 000 OTHER: 000 ATD PRESS: 3224

ENT(1)/EPA(w)-2/EEC(t)/EWA(m)-2/EWA(h) Pz-6/Peb/Pi-4 UR/0057/65/035/004/0723/0738 ACCESSION NR: AP5010811 AUTHOR: Sushkov, A.D.; Meos, V.A. The klystron method for producing nanosecond and subnanosecond TITLE: videopulses. 1 Zhurnal tekhnicheskoy fiziki, v. 35, no. 4, 1965, 723-738 TOPIC TAGS: klystron, bunch formation, electron beam, pulse generator ABSTRACT: The authors are interested in developing the klystron method for producing short pulses at high repetition rates, suggested many years ago by J.B. Haistead (Proc. Phys. Soc., 60, 397, 1948) and others. In the present paper they report the results of theoretical investigations. The bunching of electrons in a one-dimensional beam by a uniform zedulating field is discussed in detail with particular reference to the effects of large modulating fields. The effect of the nonuniform modulating field in the unscreened gap between two circular waveguides on the bunching of the two-dimensional (axially symmetric) beam is considered. Excitation by the bunched beam of both coaxial and strip-lines is treated and the effect of the load impedance on the pulse shape is discussed. It is concluded Card 1/2

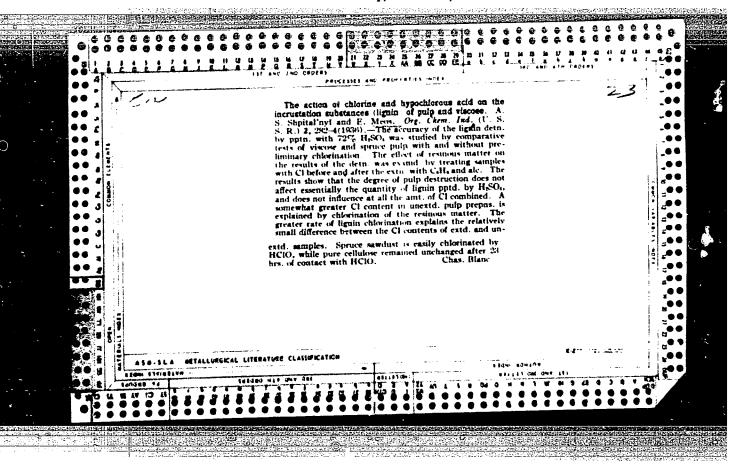
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ASSOCIATION: Len (Lenina) (Leningr	ingradskiy ele ad Blactrotech	ktrotekhniches mical Institute	kiy institut i			
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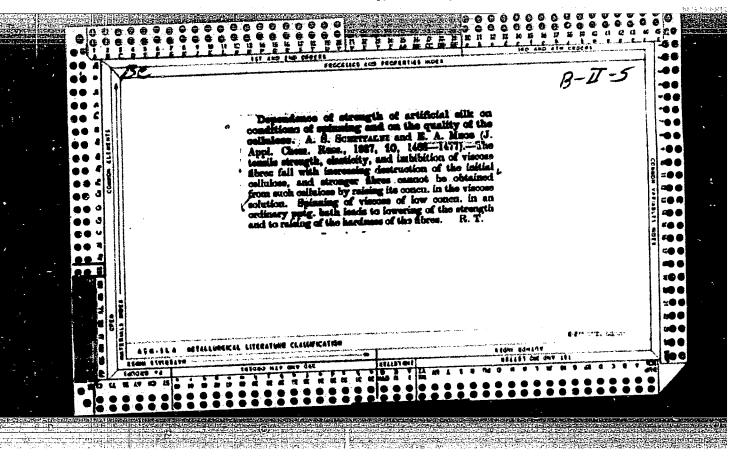
ACCESSION MR: AP5010812  AUTHOR: Sushkov, A. D.; Meos, V. A.  TITLE: Klystron method of generating nano- and subnanosecond video pulses. II.  SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 4, 1965, 739-747  TOPIC TAGS: klystron generator, video pulse generator, nanosecond video pulse, subnanosecond video pulse, single stage klystron generator  ABSTRACT: Six different models of a single-stage low-voltage Klystron generator of ultrashort video pulses have been experimentally investigated. The generators of the GSKI series consist of a klystron with two hf gaps and an external armature (see Fig. 1 of Enclosure). The metal-glass klystron contains electron gun 1, accelerating electrode 2, drift space 3, and collector 4. The input (gridless) gap celerating electrode 2, drift space 3, and collector 5 is connected to the in-/ the drift space and the collector. Wideband resonator 5 is connected to the in-/ put gap, and coaxial line 6 with estandard waveguide resistance and plug 7 are connected to the output gap. Tests were made of both video-pulse and generator paremnected to the output gap. Tests were made of both video-pulse and generator paremnected to the including modulating voltage amplitude at the input, electron eters; the latter including modulating voltage amplitude at the input, electron		
TITLE: Klystron method of generating nano- and subnanosecond video pulses. II.  SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 4, 1965, 739-747  TOPIC TACS: klystron generator, video pulse generator, nanosecond video pulse, subnanosecond video pulse, single stage klystron generator  ABSTRACT: Six different models of a single-stage low-voltage klystron generator of ultrashort video pulses have been experimentally investigated. The generators of the GSKI series consist of a klystron with two hf gaps and an external armature (see Fig. 1 of Enclosure). The metal-glass klystron contains electron gun 1, accelerating electrode 2, drift space 3, and collector 4. The input (gridless) gap celerating electrode 2, drift space 3, and collector 4. The input (gridless) gap is formed between the plate and the drift space, and the output (grid) gap, between the drift space and the collector. Wideband resonator 5 is connected to the in-/put gap, and coaxial line 6 with a standard waveguide resistance and plug 7 are conput gap, and coaxial line 6 with a standard waveguide resistance and generator parem-		UR/0057/65/035/00は/0739/07は7
SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 4, 1965, 739-747  TOPIC TAGS: klystron generator, video pulse generator, nanosecond video pulse, subnanosecond video pulse, single stage klystron generator  ABSTRACT: Six different models of a single-stage low-voltage klystron generator of ultrashort video pulses have been experimentally investigated. The generators of the GSKI series consist of a klystron with two hf gaps and an external armature of the GSKI series consist of a klystron with two hf gaps and an external armature (see Fig. 1 of Enclosure). The metal-glass klystron contains electron gun 1; ac- (see Fig. 1 of Enclosure). The metal-glass klystron contains electron gun 1; ac- celerating electrode 2, drift space 3, and collector 4. The input (gridless) gap celerating electrode 2, drift space 3, and collector 5 is connected to the in- the drift space and the collector. Wideband resonator 5 is connected to the in- put gap, and coaxial line 6 with estandard waveguide resistance and plug 7 are con-		and submanosecond video pulses. II.
ABSTRACT: Six different models of a single-stage low-voltage Klystron generator of ultrashort video pulses have been experimentally investigated. The generators of ultrashort video pulses have been experimentally investigated. The generators of the GSKI series consist of a klystron with two hf gaps and an external armature of the GSKI series consist of a klystron with two hf gaps and an external armature of the GSKI series consist of a klystron contains electron gun 1; ac- (see Fig. 1 of Enclosure). The metal-glass klystron contains electron gun 1; ac- celerating electrode 2, drift space 3, and collector 4. The input (gridless) gap celerating electrode 2, drift space 3, and collector 4. The input (gridless) gap is formed between the plate and the drift space, and the output (gridless) gap, between the drift space and the collector. Wideband resonator 5 is connected to the in-/ put gap, and coaxial line 6 with estandard waveguide resistance and plug 7 are con-	SOURCE: Zhurnal tekhnicheskoy fiziki, v. 3	5, no. 4, 1965, 739-747 e generator, nanosecondevideo pulse,
	ABSTRACT: Six different models of a single of ultrashort video pulses have been experient the GSKI series consist of a klystron wise (see Fig. 1 of Enclosure). The metal-glass celerating electrode 2, drift space 3, and is formed between the plate and the drift state drift space and the collector. Widebar but gap, and coaxial line 6 with estandard we	e-stage low-voltage Klystron generator mentally investigated. The generators the two his gaps and an external armature klystron contains electron gun 1; accollector 4. The input (gridless) gap space, and the output (grid) gap, between a resonator 5 is connected to the in-/waveguide resistance and plug 7 are consequently waveguide resistance and generator parameters.

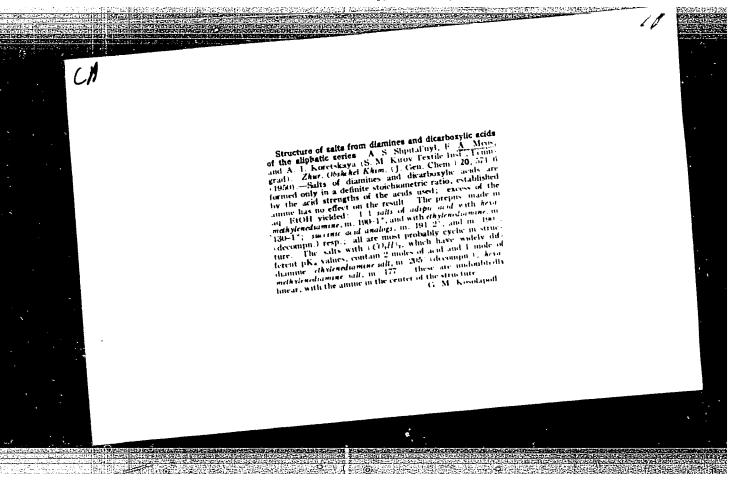
1. 47182-65			
ACCESSION NR: AP5010812  currents transmitted to the output. The GSKI-h model preters are given in Table 1.  ASSOCIATION: Leningradskiy	Orig. art. has: 5 figure	es and 1 table. [DW]	
ASSOCIATION: Leningradually (Lenins) (Leningrad Electrot SUBMITTED: 09Jul64	echnical Institute) ENCL: 02	SUB CODE; EC	
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TON NR: AP5010812	0	
Table 1. Basic parameters of the GSKI-W klys	stron generator	
Accelerating voltage, v	350	
Beam current in drift space, mamp Collector current, mamp	60 35	
Modulating-voltage amplitude, v Excitation power, w	300	
Pulse duration, nsec	0.35 0.2	
Rise time, nsec Pulse amplitude, v	10	
Repetition frequency, Mc Output characteristic impedance, ohm	200 75	
Collector cooling	Natural	
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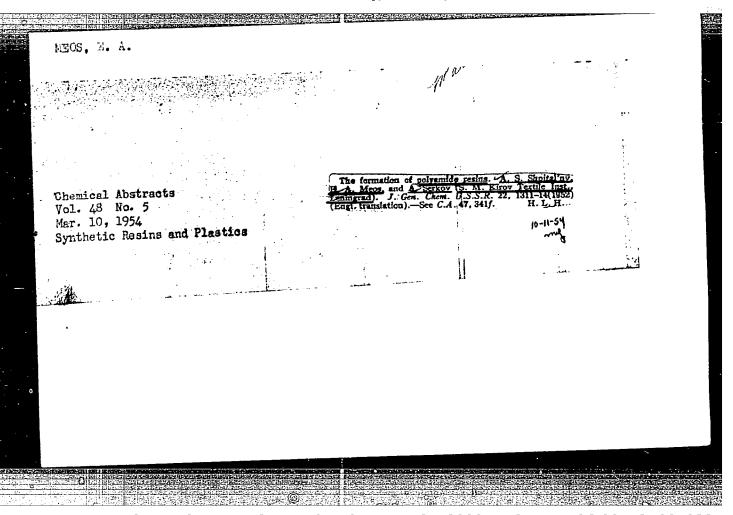




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<b>229148</b>	were found to be more sensitive to heat than the polymers of 7-membered rings not substituted at the N-atom. Products of the combination of &-aminocaprolactam with adipic and succin's acids were isolated. The addn of &-aminocaproic acid to &-caprolactam significantly increases the relative viscosity of the polymer in the early stage of the reaction.	In the formation of polyamide structures, 7- membered rings may be converted to polymers in 2 ways: polymerization and polycondensation. States that contrary to published data, condi- tions could be found under which N-methylcapro- lactam forms polymers. The resulting polymers 229T48	"Zhur Obshch Khim" Vol 22, No 7, pp 1266-1270	"The Problem of the Formation of Polyamide Resins," A. S. Shpital'nvy, Ye. A. Meos, A. Serkov, Lab of Synthetic Fibers, Leningrad Textile Inst imeni S. M. Kirov	USSR/Chemistry - Synthetic Fibers Jul 52

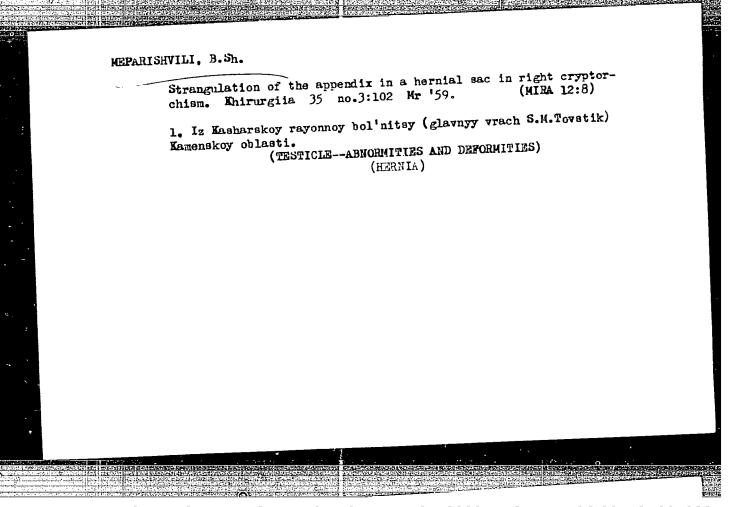
APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033



		USSR/Chemistry - Synthetic Fibers Aug 53 "Opening the Ring in £-Caprolactem Using Dicarboxylic Acids of the Fatty Series and Amines," A. S. Shpitchniy, Ye. A. Meos and K. Ye. Perepelkin, Leningrad Tech Inst im S. M. Kirova, Chair of Synthetic Fibers	Zhur Obshch Khim, Vol 23, No 8, pp 1382-1383  Treated £-caprolactam (I) with aniline, hexamethylenediamine, and ethylenediamine and obtained the reaction products and the benzoyl derivs of the reaction products. Some of the products were also reaction products.	isolated in the form of picrates and oxalates. Fresents some ideas on the character of the polymerization-condensation processes taking place when (I) is converted to a polymer.	270T28
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MEUS, E.A. USSK/Chemistry - Macromolecular chemistry t Pub. 151 - 9/37 nard 1/1 : Shpitalinyy, A. S.; Perepelkin, K. E.; and Meos, E. A. Process of formation of polyamide resins. Part 4.- The multistage process Authors of formation of polyamide resins and the products obtained from the re-Title action of E - caprolactam with adipic acid Zhur. ob. khim. 24/3, 447-450, Mar 1954 The multistage polymerization process occurring during the formation of Periodical: polyamides from 8 -caprolactam was definitely proven by the formation of adipic acid ( E -caprolactam reaction products with a molar ratio of Abstract 1: 2 and 1: 4). The properties of reaction products of different molecular ratio and the solubility of Ag-salt, a reaction product during equimolecular ratio of the basic components, were determined. The presence of benzoic acid in the reaction mixture during its reaction with E - caprolactam is explained. Ten references: 7-USSR; 2-German and 1-USA (1843-1953). Table. The Textile Institute, Leningrad Institution: Submitted : July 3, 1953



& MEPARISHVILL, M.

BARYSHNIKOV, V.; MEPARISHVIII. Me: LOPUKHINA, A.

Practice of the foremost savings banks. Fin. SSSR 15 no.10:64-67 0154.

1. Zavaduyushchiy Bryukhovetskoy tsentral'noy sberegatel'noy kassoy Krasnodarskogo kraya (for Baryshnikov). 2. Zaveduyushchiy tsentral'noy sberegatel'noy kassoy Leninskogo rayona g. Tbilisi (for Maparishvili). 3. Zaveduyushchaya Pistsovskoy sberegatel noy kassoy Komsomol'skogo rayona Ivanovskoy oblasti (for Lopukhina). (Savings Banks)

MEPISASHVILI, I. S.

"The Epithelial Histogenesis of the Cloaca, Allantois and Their Derivatives in Cattle (Bos Taurus)." Cand Biol Sci, Tbilisi State U. Tbilisi, 1954.

(KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USS Higher Educational Institutions (13) SO: Sum 508, 29 Jul '5